

Amendment to the Claims:

1. (Currently Amended) A treatment room suitable for recording images of a human or animal body on the basis of magnetic resonance, wherein ~~the walls, the ceiling and the floor of the treatment room form~~ ~~is surrounded by~~ an electromagnetic shield for a magnetic resonance imaging device arranged in the 5 treatment room, which MR imaging device comprises;

a target area in which the human or animal body can be accommodated,

a housing comprising a main magnetic unit and gradient magnetic unit for generating one or more magnetic fields in the target area,

10 a radio frequency pulse unit for supplying an electromagnetic RF pulse to the target area, and

~~means a wall, ceiling, and/or floor structure in the treatment room for counteracting the electromagnetic effects of the RF pulse in the treatment room outside the target area, the structure including at least one of:~~

15 ~~a layer made of stainless steel,~~

~~ferrite tiles, and~~

~~an open electro conductive fiber construction.~~

2. (Currently Amended) A treatment room ~~The imaging device~~ as claimed in claim [[1]] 21, wherein the ~~counteracting means are~~ ~~spatial structure is~~ placed in the treatment room.

3. (Currently Amended) A treatment room ~~The imaging device~~ as claimed in claim 2, wherein the ~~counteracting means are~~ ~~spatial structure is~~ provided on ~~the~~ walls and/or the ~~a~~ ceiling and/or the ~~a~~ floor of the treatment room.

4. (Currently Amended) [[A]] The treatment room as claimed in claim [[3]] 12, wherein the ~~counteracting means comprises~~ ~~further including~~ a layer made of stainless steel ~~mounted on at least one of the walls, the ceiling, and the floor.~~

5. (Currently Amended) [[A]] The treatment room as claimed in claim [[3]] 12, wherein the counteracting means comprises further including an electro conductive coating on at least one of the walls, the ceiling, and the floor.

6. (Currently Amended) [[A]] The treatment room as claimed in claim [[3]] 18, wherein the counteracting means comprises further including one or more elements made of a material that absorbs the electromagnetic waves.

7. (Currently Amended) [[A]] The treatment room as claimed in claim 6, wherein the electro-conductive elements are embodied so as to be include ferrite tiles.

8. (Currently Amended) [[A]] The treatment room as claimed in claim 6, wherein the electro-conductive elements have an open fiber structure of electro conductive material.

9. (Currently Amended) [[A]] The treatment room as claimed in claim 6, wherein the electro-conductive elements have a spatial electro conductive structure directed towards the interior of the treatment room.

10. (Currently Amended) [[A]] The treatment room as claimed in claim [[2]] 12, wherein the counteracting means dipole antenna can be moved relative to the MR imaging device in the treatment room.

11. (Currently Amended) [[A]] The treatment room as claimed in claim [[2]] 1, wherein the counteracting means comprise further including at least one LCR circuit which is oriented substantially perpendicularly to the a magnetic field generated by the RF pulse.

12. (Currently Amended) A treatment room as claimed in claim 2, wherein the counteracting means comprise suitable for recording images of a human or animal body on the basis of magnetic resonance, wherein walls, a ceiling,

- and a floor of the treatment room form an electromagnetic shield for a magnetic resonance imaging device arranged in the treatment room, which MR imaging device comprises:
- a target area in which the human or animal body can be accommodated;
- 10 a main magnetic unit and a gradient magnetic unit for generating one or more magnetic fields in the target area;
- 15 a radio frequency pulse unit for supplying an electromagnetic RF pulse to the target area; and
- at least one LCR dipole antenna which is disposed in the treatment room and oriented substantially parallel to the electric field generated by the RF pulse for counteracting the electromagnetic effects of the RF pulse in the treatment room outside the target area.

13. (Currently Amended) [[A]] The treatment room as claimed in claim 12, wherein the LCR dipole antenna is electrically connected to the electromagnetic shield and has an electric length equal to  $\frac{1}{4}\lambda$ , where  $\lambda$  is equal to the wavelength of the RF pulse.

14. (Currently Amended) [[A]] The treatment room as claimed in claim 12, wherein the LCR dipole antenna is connected to the electromagnetic shield so as to be electrically shielded there from, and has an electric length equal to  $\frac{1}{2}\lambda$ , where  $\lambda$  is equal to the wavelength of the RF pulse.

15. (Currently Amended) [[A]] The treatment room as claimed in claim [[2]] 1, wherein the counteracting means comprise further including at least one electro conductive plane which can be arranged in the treatment room.

16. (Currently Amended) [[A]] The treatment room as claimed in claim [[1]] 18, wherein the counteracting means waveguides form part of the MR imaging device.

17. (Currently Amended) [[A]] The treatment room as claimed in claim 16, wherein the counteracting means waveguides have a comparatively high electric resistivity as compared to the resistivity of the material of the housing, and are provided on the housing so as to enclose the RF unit.

18. (Currently Amended) A treatment room as claimed in claim 17, wherein the counteracting means comprises suitable for recording images of a human or animal body on the basis of magnetic resonance, wherein the walls, the ceiling, and the floor of the treatment room form an electromagnetic shield for a magnetic resonance imaging device arranged in the treatment room, comprising:

a target area in which the human or animal body can be accommodated;

a housing comprising a main magnetic unit and a gradient magnetic unit for generating one or more magnetic fields in the target area;

10 a radio frequency pulse unit for supplying an electromagnetic RF pulse to the target area; and

a large number of abutting waveguides, provided with at least one electrically open end for counteracting the electromagnetic effects of the RF pulse in the treatment room outside the target area.

19. (Currently Amended) [[A]] The treatment room as claimed in claim 18, wherein the electric length of the waveguide is equal to  $\frac{1}{4} \lambda$ , where  $\lambda$  is equal to the wavelength of the RF pulse.

20. (Currently Amended) [[A]] The treatment room as claimed in claim [[17]] 18, wherein [[a]] reactive elements are [[is]] provided near at least one end of the waveguides.

21. (Currently Amended) A magnetic resonance imaging device  
disposed in a treatment room comprising;

a target area in which the human or animal body can be accommodated,

5 a housing comprising a main magnetic unit and a gradient magnetic unit for generating one or more magnetic fields in the target area,

at least one radio frequency pulse unit for supplying an electromagnetic RF pulse to the target area, and

means a 3D spatial structure of electro conductive elements that absorb  
10 electromagnetic RF waves, the spatial structure of electro conductive elements being  
disposed in the treatment room directed towards the target area for counteracting the electromagnetic effects of the RF pulse in the treatment room outside the target area.